1.2 Direction Fields

- 2.3 Modelling with ODEs
- 2.1 Separable ODEs
- 2.2 Linear First-Order ODEs
- 2.4 Linear vs Nonlinear ODEs
- 2.5 Autonomous ODEs

Let us model the altitude of a boulder thrown by a catapult!

- Which basic Physics principle should we use?
 - 6 Conservation of Angular Momentum
 - **(b)** Newton's 2nd Law

 - d Conservation of Linear Momentum
 - Conservation of Energy



We need to know:

2 Acceleration =

3 Force =



4 What do we know about the boulder at t = 0?

